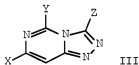
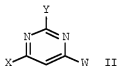
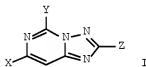


TITLE: Preparation of [1,2,4]triazolo[1,5-c]pyrimidines as adenosine A2A receptor antagonists
 INVENTOR(S): Atsumi, Toshiyuki; Tsumiki, Hiroshi; Ikeda, Shunichi; Suzuki, Koji
 PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2002037787	A	20020206	JP 2001-144465	20010515 <--
PRIORITY APPLN. INFO.:			JP 2000-142882	A 20000516 <--
OTHER SOURCE(S):		CASREACT 136:151173; MARPAT 136:151173		
GI				



AB Title compds. I (X = halo, OQ, lower alkylthio, arylthio, etc.; Y = H, lower alkyl, aryl, aromatic heterocyclyl, etc.; Z = halo, OQ, lower alkylthio, arylthio, alkylsulfinyl, arylsulfinyl, etc.; Z = (un)substituted aryl, aromatic heterocyclyl), useful for treatment of Parkinson's disease, dementia, and depression, are prepared by reaction of pyrimidines II (X, Y = same as I; W = halo, OQ2, lower alkylthio, arylthio, alkylsulfinyl, etc.; Q2 = lower alkyl, aryl, aromatic heterocyclyl, etc.) with H2NNHCOZ (Z = same as I), cyclization, and rearrangement of III (X, Y, Z = same as above). 2-Amino-4,6-dichloropyrimidine was condensed with 2-furanylcarbonylhydrazide in the presence of KOBu-tert in DMSO at 30° for 2 h to give 97% 2-amino-6-chloro-4[2-(2-furoylhydrazino)]pyrimidine, which was cyclized in the presence of (F3CSO2)O in F3CCO2H under reflux for 8 h and treated with 1-methyl-2-pyrrolidone at 80° for 1 h to give 5-amino-7-chloro-2- (furan-2-yl) [1,2,4]triazolo[1,5-c]pyrimidine.

IT 394652-25-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of triazolopyrimidines as adenosine A2A receptor antagonists)

RN 394652-85-8 ZCAPLUS

CN 2-Furancarboxylic acid, 2-(2-amino-6-chloro-4-pyrimidinyl)hydrazide (CA
INDEX NAME)

